

## 22.4: Discussion

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### **Discussion (30 points)**

Write a minimum one-page (12 font, single spaced) discussion on the experiment conducted this week. **The assignment will be graded on completeness, clarity of the explanations and the meaningful integration of the collected and calculated data.** Correct grammar and appropriate format for the chemical formulae and chemical reactions is expected. **You may use the outline included at the end of this document on how to build your essay to address each category.**

1. Slime is a polymer. Define a polymer and give at least 3 other examples of polymers you encounter every day.
2. Identify the role of the contact solution, glue, and baking soda in the slime formulation.
3. Describe how you varied on component while holding the others constant in the process.
4. Give a supported argument why it is important to vary only one component at a time in an experiment.
5. Propose another experiment to modify your slime protocol. Don't hesitate to test your protocol and share your pictures!
6. Identify at least one other area of your life where having a clear and detailed protocol is essential. Don't hesitate to provide a sample protocol!
7. Based on your experience reproducing your own and your colleagues' experiments, describe how much detail was or would have been helpful in the provided protocol to confidently perform the experiment.
8. Based on your experience reproducing your own and your colleagues' experiments, describe how much detail was or would have been helpful in the description of the product to make you confident in your ability to reproduce their results.
9. Describe at least one take-away from this experiment that you will use to improve your experimental protocols or data collection process for future experiments.

### **Recommended discussion outline:**

In this experiment I ....

The techniques I used in this experiment were...

The role of each of the ingredients in creating the slime were as follows:

The most important aspect of this experiment was...

In this experiment we assumed ....

The purpose of the experiment was (Hint: it was not to make slime) ... By performing this experiment, I learned...

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